

Instructions for Using the Plan Review Crosswalk for Review of Local Mitigation Plans

Attached is a Plan Review Crosswalk based on the **Multi-Hazard Mitigation Planning Guidance Under the Disaster Mitigation Act of 2000**, published by FEMA, dated March 2004. This Plan Review Crosswalk is consistent with **44 CFR Part 201 – Mitigation Planning, Interim Final Rule** (the Rule), in accordance with the **Stafford Act** (42 U.S.C. 5165), and **44 CFR Part 78.5 – Flood Mitigation Plan Development**, in accordance with the **National Flood Insurance Act of 1968** (42 U.S.C. 4104c et seq).

SCORING SYSTEM

N – Needs Improvement: The plan does not meet the minimum for the requirement. Reviewer's comments must be provided.

S – Satisfactory: The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

Each requirement includes separate elements. All elements of a requirement must be rated "Satisfactory" in order for the requirement to be fulfilled and receive a summary score of "Satisfactory." A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from passing.

When reviewing single jurisdiction plans, reviewers may want to put an N/A in the boxes for multi-jurisdictional plan requirements. When reviewing multi-jurisdictional plans, reviewers may want to put an N/A in the prerequisite box for single jurisdiction plans.

States that have additional requirements can add them in the appropriate sections of the *Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements.

Optional matrices for assisting in the review of sections on profiling hazards, assessing vulnerability, and identifying and analyzing mitigation actions are found at the end of the Plan Review Crosswalk.

The example below illustrates how to fill in the Plan Review Crosswalk.

Example

Assessing Vulnerability: Overview

- **Multihazard Requirement §201.6(c)(2)(ii):** *[The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community.*
- **FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk,, and the extent of flood depth and damage potential.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|---|--|---|----------|---|-----|---|
| | | | Stafford | | FMA | |
| | | | N | S | N | S |
| A. Does the plan include an overall summary description of the jurisdiction's vulnerability to each hazard? | Section II, pp. 4-10 | The plan describes the types of assets that are located within geographically defined hazard areas as well as those that would be affected by winter storms. | | ✓ | | ✓ |
| B. Does the plan address the impact of each hazard on the jurisdiction? | Section II, pp. 10-20 | <p>The plan does not address the impact of one of the five hazards addressed in the plan.</p> <p>Required Revisions:</p> <ul style="list-style-type: none"> • Include a description of the impact of earthquakes on the assets. <p>Recommended Revisions:</p> <ul style="list-style-type: none"> • This information can be presented in terms of dollar value or percentages of damage. | ✓ | | | ✓ |
| SUMMARY SCORE | | | ✓ | | | ✓ |

Jurisdiction: **GALLATIN COUNTY, MONTANA**

Local Mitigation Plan Review and Approval Status

| | | | | |
|---|--|--|-----|-----------|
| Jurisdiction: Gallatin County | Title of Plan: Gallatin County Hazard Mitigation Plan | Date of Plan: February 2006 | | |
| Local Point of Contact: Jason Shrauger | Address: 34 North Rouse P.O. Box 1230 Bozeman, MT 59771 | | | |
| Title: Emergency Manager | | | | |
| Agency: Gallatin County Emergency Management | | | | |
| Phone Number: 406-582-2350 | E-Mail: jshrauger@bozeman.net | | | |
| State Reviewer: Kent Atwood | Title: SHMO | Date: July 25, 2006 | | |
| FEMA Reviewer: Ken Crawford Wade Nofziger | Title: Hazard Mitigation Program Specialist Hazard Mitigation Program Specialist | Date: August 18, 2006 September 15, 2006 | | |
| Date Received in FEMA Region VIII | July 31, 2006 | | | |
| Plan Not Approved | | | | |
| Plan Approved | XXX | | | |
| Date Approved | November 7, 2006 | | | |
| Jurisdiction: | NFIP Status* | | | |
| | Y | N | N/A | CRS Class |
| 1. Gallatin County (Good Standing, mapped 8/1/84) | X | | | |
| 2. City of Bozeman (Good Standing, mapped 7/15/88) | X | | | |
| 3. City of Belgrade (Good Standing, never mapped) | X | | | |
| 4. Town of Manhattan | | | X | |
| 5. City of Three Forks (Good Standing, mapped 11/19/80) | X | | | |
| 5. Town of West Yellowstone | | | X | |

* Notes:

Y = Participating

N = Not Participating

N/A = Not Mapped

LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK

FEMA REGION VIII

Jurisdiction: **GALLATIN COUNTY, MONTANA**

LOCAL MITIGATION PLAN REVIEW SUMMARY

The plan cannot be approved if the plan has not been formally adopted.

Each requirement includes separate elements. All elements of the requirement must be rated "Satisfactory" in order for the requirement to be fulfilled and receive a score of "Satisfactory." Elements of each requirement are listed on the following pages of the Plan Review Crosswalk. A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from passing. Reviewer's comments must be provided for requirements receiving a "Needs Improvement" score.

SCORING SYSTEM

Please check one of the following for each requirement.

N – Needs Improvement: The plan does not meet the minimum for the requirement.

Reviewer's comments must be provided.

S – Satisfactory: The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

Prerequisite(s) (Check Applicable Box)

Adoption by the Local Governing Body:
§201.6(c)(5) and §78.5(f)

OR

Multi-Jurisdictional Plan Adoption: §201.6(c)(5)
and and §78.5(f) **AND**

Multi-Jurisdictional Planning Participation:
§201.6(a)(3) and and §78.5(a)

Planning Process

Documentation of the Planning Process:
§201.6(b) and §201.6(c)(1) and §78.5(a)

Risk Assessment

Identifying Hazards: §201.6(c)(2)(i) and §78.5(b)

Profiling Hazards: §201.6(c)(2)(i) and §78.5(b)

Assessing Vulnerability: Overview:
§201.6(c)(2)(ii) and §78.5(b)

Assessing Vulnerability: Identifying Structures:
§201.6(c)(2)(ii)(A) and §78.5(b)

Assessing Vulnerability: Estimating Potential
Losses: §201.6(c)(2)(ii)(B)

Assessing Vulnerability: Analyzing Development
Trends: §201.6(c)(2)(ii)(C)

Multi-Jurisdictional Risk Assessment:
§201.6(c)(2)(iii) and FEMA 299

| STAFFORD | | FMA | |
|----------|-----|---------|-----|
| NOT MET | MET | NOT MET | MET |
| | X | | X |

| | | | |
|--|---|--|---|
| | X | | X |
| | X | | X |

| N | S | N | S |
|---|---|---|---|
| | X | | X |

| N | S | N | S |
|---|---|---|---|
| | X | | X |
| | X | | X |
| | X | | X |
| | X | | X |
| | X | | X |
| | X | | X |

Mitigation Strategy

Local Hazard Mitigation Goals: §201.6(c)(3)(i) and §78.5(c)

Identification and Analysis of Mitigation Actions:
§201.6(c)(3)(ii) and §78.5(d)

Implementation of Mitigation Actions:
§201.6(c)(3)(iii) and §78.5(d) and (e)

Multi-Jurisdictional Mitigation Actions:
§201.6(c)(3)(iv) and FEMA 299

| STAFFORD | | FMA | |
|----------|---|-----|---|
| N | S | N | S |
| | X | | X |
| | X | | X |
| | X | | X |
| | X | | X |

Plan Maintenance Process

Monitoring, Evaluating, and Updating the Plan:
§201.6(c)(4)(i) and §78.5(e)

Incorporation into Existing Planning Mechanisms:
§201.6(c)(4)(ii)

Continued Public Involvement: §201.6(c)(4)(iii)

| STAFFORD | | FMA | |
|----------|---|-----|---|
| N | S | N | S |
| | X | | X |
| | X | | X |
| | X | | X |

| | | | |
|--|--|--|--|
| | | | |
| | | | |
| | | | |

LOCAL MITIGATION PLAN APPROVAL STATUS

PLAN NOT APPROVED

| STAFFORD | FMA |
|----------|-----|
| | |

PLAN APPROVED

| STAFFORD | FMA |
|----------|-----|
| XXX | XXX |

*States that have additional requirements can add them in the appropriate sections of the *Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements.

See Reviewer's Comments

PREREQUISITE(S)

Adoption by the Local Governing Body

- **Multihazard Requirement §201.6(c)(5):** *[The local hazard mitigation plan **shall** include] documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval of the plan (e.g., City Council, County Commissioner, Tribal Council).*
- **FMA Requirement §78.5(f):** *Documentation of formal plan adoption by the legal entity submitting the plan (e.g., Governor, Mayor, County Executive).*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|---|--|---------------------|----------|-----|---------|-----|
| | | | STAFFORD | | FMA | |
| | | | NOT MET | MET | NOT MET | MET |
| A. Has the local governing body adopted the plan? | N/A | | | | | |
| B. Is supporting documentation, such as a resolution, included? | N/A | | | | | |
| SUMMARY SCORE | | | | N/A | | N/A |

Multi-Jurisdictional Plan Adoption

- **Multihazard Requirement §201.6(c)(5):** *For multi-jurisdictional plans, each jurisdiction requesting approval of the plan **must** document that it has been formally adopted.*
- **FMA Requirement §78.5(f):** *Documentation of formal plan adoption by the legal entity submitting the plan (e.g., Governor, Mayor, County Executive).*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|---|--|---|----------|-----|---------|-----|
| | | | STAFFORD | | FMA | |
| | | | NOT MET | MET | NOT MET | MET |
| A. Does the plan indicate the specific jurisdictions represented in the plan? | Page 2-1 | Gallatin County, the cities of Bozeman, Belgrade, and Three Forks, plus the towns of Manhattan and West Yellowstone, are represented in the plan. | | X | | X |
| B. For each jurisdiction, has the local governing body adopted the plan? | Section 1 | Each participating jurisdiction has adopted the plan. | | X | | X |
| C. Is supporting documentation, such as a resolution, included for each participating jurisdiction? | Section 1 | All resolutions are provided in Section 1. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

Multi-Jurisdictional Planning Participation

- **Multihazard Requirement §201.6(a)(3):** *Multi-jurisdictional plans (e.g., watershed plans) may be accepted, as appropriate, as long as each jurisdiction has participated in the process ... Statewide plans will not be accepted as multi-jurisdictional plans.*
- **FMA Requirement §78.5(a):** *Description of the planning process and public involvement. Public involvement **may** include workshops, public meetings, or public hearings.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|--|--|---|----------|-----|---------|-----|
| | | | STAFFORD | | FMA | |
| | | | NOT MET | MET | NOT MET | MET |
| A. Does the plan describe how each jurisdiction participated in the plan's development? | Page 3-1 | The plan adequately describes how each jurisdiction participated in the planning process. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

PLANNING PROCESS:

Documentation of the Planning Process

- **Multihazard Requirement §201.6(b):** *An open public involvement process is essential to the development of an effective plan. In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process **shall** include:*
 - (1) *An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;*
 - (2) *An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process; and*
 - (3) *Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.*
- **Multihazard Requirement §201.6(c)(1):** *[The plan **shall** document] the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.*
- **FMA Requirement §78.5(a):** *Description of the planning process and public involvement. Public involvement **may** include workshops, public meetings, or public hearings.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|---|--|---|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the plan provide a narrative description of the process followed to prepare the plan? | Page 3-1 | The planning process is well documented and extensive in its research and partnerships. | | X | | X |

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|--|--|--|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| B. Does the plan indicate who was involved in the planning process? (For example, who led the development at the staff level and were there any external contributors such as contractors? Who participated on the plan committee, provided information, reviewed drafts, etc.?) | Page 3-1 Appendix A & B | Appendix B provides the sign-in sheets for the various public meetings. The AHAD (All Hazards All Discipline) group led the process. | | X | | X |
| C. Does the plan indicate how the public was involved? (Was the public provided an opportunity to comment on the plan during the drafting stage and prior to the plan approval?) | Page 3-1 Appendix A & B | The public was provided an opportunity to participate in the planning process, and to a certain extent, did. | | X | | X |
| D. Was there an opportunity for neighboring communities, agencies, businesses, academia, nonprofits, and other interested parties to be involved in the planning process? | Page 3-1 Appendix A & B | Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing. Several agencies, businesses, plus MSU participated. | | X | | X |
| E. Does the planning process describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information? | Page 3-1 Pages 4-3,4 | Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing. Table 4.1 describes the various sources of information gathered for the plan. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

RISK ASSESSMENT: §201.6(c)(2): *The plan shall include a risk assessment that provides the factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.*

Identifying Hazards

- **Multihazard Requirement §201.6(c)(2)(i):** *[The risk assessment shall include a] description of the type ... of all natural hazards that can affect the jurisdiction.*
- **FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk, including estimates of the number and type of structures at risk, repetitive loss properties, and the extent of flood depth and damage potential.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|---|--|---|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the plan include a description of the types of all natural hazards that affect the jurisdiction? If the hazard identification omits (without explanation) any hazards commonly recognized as threats to the jurisdiction, this part of the plan cannot receive a Satisfactory score. Consult with the State Hazard Mitigation Officer to identify applicable hazards that may occur in the planning area. | Section 4: Pages 4-33 to 4-113 | Hazards and risks are quite detailed and include most, if not all, probable potential disaster scenarios. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

Profiling Hazards

- **Multihazard Requirement §201.6(c)(2)(i):** *[The risk assessment shall include a] description of the ... location and extent of all natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.*
- **FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk,, and the extent of flood depth and damage potential.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|---|--|--|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the risk assessment identify the location (i.e., geographic area affected) of each natural hazard addressed in the plan? | Section 4: Pages 4-33 to 4-113 | Details are extensive for all hazards analyzed. This includes discussions on the history and extent of previous occurrences and the probabilities of future events. | | X | | X |
| B. Does the risk assessment identify the extent (i.e., magnitude or severity) of each hazard addressed in the plan? | Section 4: Pages 4-33 to 4-113 | The extent and magnitude of hazards is presented in the plan. Descriptions of past events are described for each hazard. | | X | | X |
| C. Does the plan provide information on previous occurrences of each hazard addressed in the plan? | Section 4: Pages 4-33 to 4-113 | The historic occurrences for each hazard assessed are outlined in the plan and described in detail. | | X | | X |
| D. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan? | Section 4: Pages 4-33 to 4-113 | The frequency of past events is presented in the plan and an associated probability is provided for each hazard assessment. Table 4.74 on page 4-113 ranks the probability for each hazard as high, medium or low. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

Assessing Vulnerability: Overview

- **Multihazard Requirement §201.6(c)(2)(ii):** *[The risk assessment **shall** include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description **shall** include an overall summary of each hazard and its impact on the community.*
- **FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk, ..., and the extent of flood depth and damage potential.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|---|--|--|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the plan include an overall summary description of the jurisdiction's vulnerability to each hazard? | Section 4: Pages 4-33 to 4-113 | Vulnerability is described in a combination of ways in the Risk Assessment. It is assessed relating to: critical facilities, potential losses, potential population impacts, impact of future development and associated data limitations. Note: the earthquake map legend is illegible. | | X | | X |
| B. Does the plan address the impact of each hazard on the jurisdiction? | Section 4: Pages 4-33 to 4-113 | The historical data on past events outlines the types and extent of impacts that specific hazards present to communities. Population impacts and impact of future development are assessed for each hazard. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

Assessing Vulnerability: Identifying Structures

- **Multihazard Requirement §201.6(c)(2)(ii)(A):** *The plan **should** describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard area*
- **FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk, including **estimates of the number and type of structures at risk, repetitive loss properties**,....*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|---|--|---|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the plan describe vulnerability in terms of the types and numbers of existing buildings (including repetitive loss structures) , infrastructure, and critical facilities located in the identified hazard areas? | Section 4: Pages 4-33 to 4-113 | The plan does provide a discussion on existing infrastructure and critical facilities, and does a great job of specifically identifying the structures within hazard prone areas. Note: A "Needs Improvement" score on this requirement will not preclude the Stafford plan from passing. | | X | | X |

Jurisdiction: **GALLATIN COUNTY, MONTANA**

| | | | | | | |
|--|--------------------------------|--|--|---|--|---|
| B. Does the plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas? | Section 4: Pages 4-33 to 4-113 | The plan provides a discussion on Future Growth and Land Use Trends, and does specifically describe vulnerability in terms of future buildings, infrastructure and critical facilities. Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

Assessing Vulnerability: Estimating Potential Losses

- **Multihazard Requirement §201.6(c)(2)(ii)(B):** *[The plan **should** describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(i)(A) of this section and a description of the methodology used to prepare the estimate*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|--|--|---|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the plan estimate potential dollar losses to vulnerable structures? | Section 4: Pages 4-33 to 4-113 | The risk assessment portion of the plan does provide a discussion on potential dollar losses for natural hazard types. Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing. | | X | | X |
| B. Does the plan describe the methodology used to prepare the estimate? | Section 4: Pages 4-19 to 4-22 and 4-31 to 4-32 | The method used to prepare potential loss estimates and general vulnerability is described in the plan. Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

Assessing Vulnerability: Analyzing Development Trends

- **Multihazard Requirement §201.6(c)(2)(ii)(C):** *[The plan **should** describe vulnerability in terms of] providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land use decisions.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|---|--|---|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the plan describe land uses and development trends? | Page 4-23 to 4-31 | The plan provides a discussion on Future Growth and Land Use Trends. The plan also incorporated the existing growth policy for the county, the City of Bozeman 2020 Community Plan, and a summary of the zoning ordinance and subdivision regulations for the City of Belgrade, and a discussion of the Town of West Yellowstone, indicating that the town adheres to the International Building Code. Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

Multi-Jurisdictional Risk Assessment

- **Multihazard Requirement §201.6(c)(2)(iii):** *For multi-jurisdictional plans, the risk assessment **must** assess each jurisdiction's risks where they vary from the risks facing the entire planning area.*
- **FMA FEMA 299 Guidance:** *The Plan should be coordinated with, and ideally developed in cooperation with, all of the local jurisdictions within the geographical area.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|---|--|---|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the plan include a risk assessment for each participating jurisdiction as needed to reflect unique or varied risks? | Section 4: Pages 4-33 to 4-113 | The plan addresses the hazard prone areas within the County and maps (see Mapping sections throughout the document) these hazard prone areas, when such mapping is applicable. Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

MITIGATION STRATEGY: §201.6(c)(3): *The plan shall include a mitigation strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.*

Local Hazard Mitigation Goals

- **Multihazard Requirement §201.6(c)(3)(i):** *[The hazard mitigation strategy **shall** include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.*
- **FMA Requirement §78.5(c):** *The applicant's floodplain management goals for the area covered by the plan.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|--|--|--|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A Does the plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards? (GOALS: long-term; what the community wants to achieve; and are based on the risk assessment findings.) | Section 5 pages 1-3 | The plan identifies six well-defined goals | | X | | X |
| SUMMARY SCORE | | | | X | | X |

Identification and Analysis of Mitigation Actions

- **Multihazard Requirement §201.6(c)(3)(ii):** *[The mitigation strategy **shall** include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.*
- **FMA Requirement §78.5(d):** *Identification and evaluation of cost-effective and technically feasible mitigation actions considered.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|--|--|--|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard? | Section 5 pages 1-3 | The plan describes a wide range of mitigation actions and projects to meet the needs of the county. | | X | | X |
| B Do the identified actions and projects address reducing the effects of hazards on new buildings and infrastructure? | Section 5 pages 1-3 | Several ideas are proposed for new construction, such as encouraging defensible space in the wildland urban interface and more restrictive regulations and prohibitions in the floodplain. | | X | | X |
| C. Do the identified actions and projects address reducing the effects of hazards on existing buildings and infrastructure? | Section 5 pages 1-3 | Creating a financial incentive program for major earthquake retrofits would protect existing structures. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

Implementation of Mitigation Actions

- **Multihazard Requirement: §201.6(c)(3)(iii):** *[The mitigation strategy section **shall** include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization **shall** include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.*
- **FMA Requirement §78.5(d):** *Identification and evaluation of cost-effective and technically feasible mitigation actions considered; and*
- **FMA Requirement §78.5(e):** *Presentation of the strategy for reducing flood risks and continued compliance with the NFIP, and procedures for ensuring implementation, reviewing progress, and recommending revisions to the plan.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|--|--|---|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the mitigation strategy include how the actions are prioritized ? (For example, is there a discussion of the process and criteria used?) | Pages 5-5 to 5-7 | Table 5.1 scores mitigation projects based on cost, feasibility, population benefit, property benefit, and hazard rating. <i>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</i> | | X | | X |
| B. Does the mitigation strategy address how the actions will be implemented and administered ? (For example, does it identify the responsible department, existing and potential resources, and timeframe?) | Page 5-8 to 5-10 | Tables 5-2 and 5-3 provide information such as the lead agency, funding sources, and a timeframe for completion (of the top 5 projects) for each mitigation action. | | X | | X |
| B.1. Does the mitigation strategy address continued compliance with the NFIP? | Page 5-8 to 5-10 | While not specifically discussing compliance, the plan does encourage educating the public on the NFIP, and encourages more restrictive regulations in the floodplain. They are also going to try and get the Town of Manhattan to join the NFIP. <i>Note: A "Needs Improvement" score on this requirement will not preclude the Stafford plan from passing.</i> | | X | | X |
| C. Does the prioritization process include an emphasis on the use of a cost-benefit review (see page 3-36 of <i>Multi-Hazard Mitigation Planning Guidance</i>) to maximize benefits? | Page 5-5 to 5-7 | Table 5.1 does a good job of prioritizing mitigation actions. It shows both cost and population/property benefits. They have ranking factors addressed in the prioritization. <i>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</i> | | X | | X |
| C.1. Does the mitigation strategy emphasize cost-effective and technically feasible mitigation actions? | Page 5-5 to 5-7 | See above. <i>Note: A "Needs Improvement" score on this requirement will not preclude the Stafford plan from passing.</i> | | X | | X |
| SUMMARY SCORE | | | | X | | X |

Multi-Jurisdictional Mitigation Actions

- **Multihazard Requirement §201.6(c)(3)(iv):** *For multi-jurisdictional plans, there **must** be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.*
- **FMA FEMA 299 Guidance:** *The Plan should be coordinated with, and ideally developed in cooperation with, all of the local jurisdictions within the geographical area.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|--|--|--|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A Does the plan include at least one identifiable action item for each jurisdiction requesting FEMA approval of the plan? | Pages 5-8 to 5-10 Table 5.2 | This requirement is marginally met. Table 5-2 indicates the jurisdictions associated with each proposed mitigation action, but all indicate the same "Gallatin County and Incorporated Jurisdictions". This is generally too broad of an indication for the purposes of this requirement. Recommended Revisions for the Five Year Update: Identify at least one mitigation action per jurisdiction. For each participating jurisdiction, include the responsible parties/agencies, the funding sources, and the target completion dates for each action in the mitigation strategy section. For more information on the development of the mitigation strategy or action plan, see <i>Developing the Mitigation Plan</i> (386-3), Step 3. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

PLAN MAINTENANCE PROCESS

Monitoring, Evaluating, and Updating the Plan

- **Multihazard Requirement §201.6(c)(4)(i):** *[The plan maintenance process **shall** include a] section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.*
- **FMA Requirement §78.5(e):** *Presentation of the strategy for reducing flood risks and continued compliance with the NFIP, and procedures for ensuring implementation, reviewing progress, and recommending revisions to the plan.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|--|--|--|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the plan describe the method and schedule for monitoring the plan? (For example, does it identify the party responsible for monitoring and include a schedule for reports, site visits, phone calls, and meetings?) | Page 6-1, | The plan will be reviewed annually at the September LEPC meeting that will be open to the public. The LEPC is the current body of the AHAD committee discussed earlier. Specific plan section review time frames are indicated in Table 6.1. | | X | | X |
| B. Does the plan describe the method and schedule for evaluating the plan? | Page 6-1 | Each year a notice of approval will be sent to the Montana Disaster & Emergency Services (DES) by the Gallatin County LEPC Chairperson. | | X | | X |
| C. Does the plan describe the method and schedule for updating the plan within the five-year cycle? | Page 6-1 | Every five years, the plan will be submitted to MT DES and FEMA for review and approval. The next submittal is scheduled for August 2010. | | X | | X |
| SUMMARY SCORE | | | | X | | X |

Incorporation into Existing Planning Mechanisms

- **Multihazard Requirement §201.6(c)(4)(ii):** *[The plan **shall** include a] process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.*

| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|--|--|---|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the plan identify other local planning mechanisms available for incorporating the requirements of the mitigation plan? | Page 5-11 | County will incorporate these planning requirements into the growth policies, capital improvement plans, zoning regulations, and sub-division regulations. <i>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</i> | | X | | X |
| B. Does the plan include a process by which the local government will incorporate the requirements in other plans, when appropriate? | Page 5-11 | Gallatin County and Bozeman Planning Departments will support mitigation through building codes, subdivision review, and land use permits. <i>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</i> | | X | | X |
| SUMMARY SCORE | | | | X | | X |

Jurisdiction: **GALLATIN COUNTY, MONTANA**

Continued Public Involvement

- **Multihazard Requirement §201.6(c)(4)(iii):** *[The plan maintenance process shall include a] discussion on how the community will continue public participation in the plan maintenance process.*

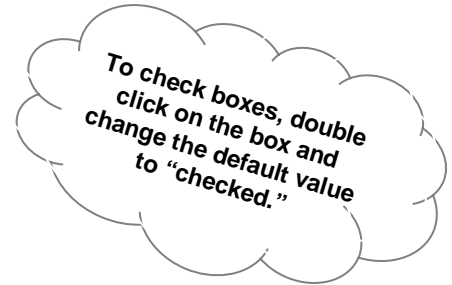
| Element | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE | | | |
|---|--|---|----------|---|-----|---|
| | | | STAFFORD | | FMA | |
| | | | N | S | N | S |
| A. Does the plan explain how continued public participation will be obtained? (For example, will there be public notices, an on-going mitigation plan committee, or annual review meetings with stakeholders?) | Page 6-2 | <p>This requirement is marginally met. Public comments will be considered during the annual review of the plan. The public is encouraged to attend the annual review meeting. Contact information on where to submit comments (Gallatin County Emergency Management) is provided in the plan. However, no specific information on how the annual meeting will be publicized is provided, which is an important component of meeting this requirement.</p> <p>Recommended Revisions for the Five Year Update:</p> <p>Describe public participation opportunities that the community will have during the plan's monitoring, evaluation, and updates (e.g., soliciting input, holding meetings, posting the proposed changes to the plan on the Web, in local newspapers/radio etc.).</p> <p>Include a schedule for public participation opportunities, and define who will be responsible for organizing events, who will maintain the Web site, or post ads in the local newspapers/radio, etc.</p> <p>Explain how and when public comments will be integrated into the plan updates.</p> <p>For more information on keeping the public involved, see <i>Getting Started</i> (FEMA 386-1), Step 3 and <i>Bringing the Plan to Life</i> (FEMA 386-4), Steps 2 & 3.</p> | | | | |
| SUMMARY SCORE | | | | X | | X |

Jurisdiction: **GALLATIN COUNTY, MONTANA****Matrix A: Profiling Hazards**

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that their plan addresses each natural hazard that can affect the jurisdiction. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

| Hazard Type | Hazards Identified Per Requirement §201.6(c)(2)(i) | A. Location | | B. Extent | | C. Previous Occurrences | | D. Probability of Future Events | |
|---------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------|--------------------------|
| | Yes | N | S | N | S | N | S | N | S |
| Avalanche | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Coastal Erosion | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Coastal Storm | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dam Failure | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Drought | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Earthquake | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Expansive Soils | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Extreme Heat | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Flood | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hailstorm | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hurricane | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Land Subsidence | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Landslide | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Severe Winter Storm | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tornado | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tsunami | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Volcano | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Wildfire | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Windstorm | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other _____ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other _____ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other _____ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**Legend:**

§201.6(c)(2)(i) Profiling Hazards

- A. Does the risk assessment identify the location (i.e., geographic area affected) of each hazard addressed in the plan?
- B. Does the risk assessment identify the extent (i.e., magnitude or severity) of each hazard addressed in the plan?
- C. Does the plan provide information on previous occurrences of each natural hazard addressed in the plan?
- D. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?

Matrix B: Assessing Vulnerability

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that their plan addresses each requirement. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An "N" for any element of any identified hazard will result in a "Needs Improvement" score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

Note: Receiving an N in the shaded columns will not preclude the plan from passing.



| Hazard Type | Hazards Identified Per Requirement §201.6(c)(2)(i) | | A. Overall Summary Description of Vulnerability | | B. Hazard Impact | | | A. Types and Number of Existing Structures in Hazard Area (Estimate) | | B. Types and Number of Future Structures in Hazard Area (Estimate) | | | A. Loss Estimate | | B. Methodology | |
|---------------------|--|--|---|--------------------------|--------------------------|--------------------------|--|--|--------------------------|--|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | | N | S | N | S | | N | S | N | S | | N | S | N | S |
| Avalanche | <input type="checkbox"/> | §201.6(c)(2)(ii) Assessing Vulnerability: Overview | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | §201.6(c)(2)(ii) Assessing Vulnerability: Identifying Structures | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | §201.6(c)(2)(ii) Assessing Vulnerability: Estimating Potential Losses | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Coastal Erosion | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Coastal Storm | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Dam Failure | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Drought | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Earthquake | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Expansive Soils | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Extreme Heat | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Flood | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Hailstorm | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Hurricane | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Land Subsidence | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Landslide | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Severe Winter Storm | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Tornado | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Tsunami | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Volcano | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Wildfire | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Windstorm | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Other _____ | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Other _____ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Other _____ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |

Legend:

§201.6(c)(2)(ii) Assessing Vulnerability: Overview

- A. Does the plan include an overall summary description of the jurisdiction's vulnerability to each hazard?
- B. Does the plan address the impact of each hazard on the jurisdiction?

§201.6(c)(2)(ii)(A) Assessing Vulnerability: Identifying Structures

- A. Does the plan describe vulnerability in terms of the types and numbers of existing buildings, infrastructure, and critical facilities located in the identified hazard areas?

- B. Does the plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?

§201.6(c)(2)(ii)(B) Assessing Vulnerability: Estimating Potential Losses

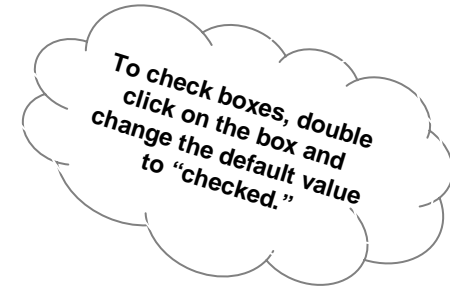
- A. Does the plan estimate potential dollar losses to vulnerable structures?
- B. Does the plan describe the methodology used to prepare the estimate?

Matrix C: Identification and Analysis of Mitigation Actions

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure consideration of a range of actions for each hazard. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An “N” for any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

| Hazard Type | Hazards Identified Per Requirement §201.6(c)(2)(i) | A. Comprehensive Range of Actions and Projects | |
|---------------------|--|--|--------------------------|
| | Yes | N | S |
| Avalanche | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Coastal Erosion | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Coastal Storm | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dam Failure | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Drought | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Earthquake | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Expansive Soils | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Extreme Heat | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Flood | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hailstorm | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hurricane | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Land Subsidence | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Landslide | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Severe Winter Storm | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tornado | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tsunami | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Volcano | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Wildfire | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Windstorm | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other _____ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other _____ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other _____ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**Legend:**

§201.6(c)(3)(ii) Identification and Analysis of Mitigation Actions

A. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?